NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 6/22/2010

Control	**0014-03-091**
Project	**IM 0355(145)**
Highway	**IH 35W**
County	**JOHNSON**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum notification which details the changes and the respective proposal pages which were added and/ or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped “This Proposal Issued for Informational Purposes.”

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: IM 0355(145) CONTROL: 0014-03-091
COUNTY: JOHNSON
LETTING: 07/08/2010
REFERENCE NO: 0622

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
_ BID INSERTS (SH. NO.:)
X GENERAL NOTES (SH. NO.: SHEETS A, D & E)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

GENERAL NOTES: SHEET A: REMOVED ITEM 275 FROM BASIS OF ESTIMATE.
SHEETS D-E: REMOVED NOTES FOR ITEM 275 AND ADDED NOTES FOR ITEM 276.

PLAN SHEETS: REPLACED SHEETS 12, 12A & 12B TO REFLECT THE ABOVE CHANGES.

Project Number: IM 0355(145) **Sheet**

County: Johnson **Control: 0014-03-091**

Highway: IH 35W Frontage Roads

GENERAL NOTES:

Specification Data
Basis of Estimate

Item	Description	Rate	Unit
134	Backfilling Pavement Edges	0.2 gal/SY	
166	Fert (16-8-8)	600 lb/acre**	Ton
168	Vegetative Watering	169,400 gal/acre	MG
247	Flex Base (Rdwy Del)(Del Vol/Compl In Place Vol)	1.25 CY/CY	CY
314	Asph Mat'l (MC-30) **	0.2 gal/SY	Gal
341	Hot Mix (Ty D)	115 lb/SY/in	Ton

** Non-Pay, for Contractor's Information Only.

Compaction Requirements for Base Courses:
(Percent Of Density As Determined By Compaction Ratio Test TEX-113-E)

ITEM	MATERIAL	COURSE	MIN DENSITY
275	Cement Treat.	All	95 %

Surface Treatment Data:

Prime Coat Surface Treatment

Asph Type RC-250
Rate 0.32 gal/SY(on flex base)

Aggr Type B
Grade 5
Rate 1 CY/120 SY

One Course Surface Treatment

Asph Type AC-20XP (Final Surface Treatment)
Rate 0.45 gal/SY

Aggr Type PB
Grade 4
Rate 1 CY/90 SY

Note: The rates of application of asphalt and aggregate are for estimating purposes only and may be varied as directed by the Engineer.

Special Notes:

Calculating, Recording and Reporting Test Data - Use appropriate TxDOT Excel templates to calculate and record all test data. These forms are available on the TxDOT website at www.dot.state.tx.us/forms/construction.htm under the “SiteManager” heading. Submit test results within 24 hours of test completion by email or CD.

For dimensions of R.O.W. not shown on the plans, see the link at http://www.txdot.gov/business/road_construction/row_map.htm or the R.O.W. map on file at the TxDOT District Office.

Mail box manipulation made necessary because of construction shall be done in accordance with Item 560, except that this work will not be paid for directly but will be considered subsidiary to the various bid items.

Provide all-weather surface for temporary ingress and egress to adjacent property, as directed. Materials, labor, equipment and incidentals necessary to provide temporary ingress and egress will not be paid for directly, but will be subsidiary to the various bid items.

In those instances where necessary, the governing slopes indicated herein may be varied from the limits shown, to the extent approved.

On superelevated curves the shoulders shall have the same cross-slope as the pavement, unless otherwise indicated.

On superelevated curves where the grade line is in a sag or on flat grades, overlay the shoulders to the extent necessary to prevent trapping of water on the high side.

Remove the grass from the crown of shoulders or pavement edges by blading or other approved methods. Payment for this work will not be made directly but shall be considered subsidiary to the various items of the contract.

Provide temporary drain openings at all low points or other drainage structures, as required, at the Contractor's expense.

Remove any obstructions to existing drainage due to the contractor's operations, as required, at the Contractor's expense.

Item 5. Control of the Work

Perform construction surveying to record and re-establish the road profile, cross slopes and super-elevations in accordance with Article 5.6.B, “Method C”.

Item 8. Prosecution and Progress

Working days will be computed and charged in accordance with Article 8.3.A.1 Five-Day Workweek.

Item 110. Excavation

Review proposed waste sites to determine if any site is located in a "Base Floodplain" or "Floodway" as defined by the Federal Emergency Management Agency (FEMA).

If waste material from this project is placed in a base floodplain as defined by FEMA, a permit will have to be obtained from the local community responsible for enforcing National Flood Insurance Program (NFIP) regulations. The Contractor is responsible for ensuring that the owner of the property receiving the waste has obtained the necessary permit.

Item 134. Backfilling Pavement Edges

Place salvaged material and treat with emulsified asphalt.

Item 164. Seeding for Erosion Control

Apply seeding required between December 1 and January 31 using seed types and mixtures as shown in Item 164.2.A, Table 3. If, in the opinion of the Engineer, this does not provide an effective vegetative cover, apply "straw or hay mulch" as specified in Item 164.3.E as soon as possible. After February 1 apply warm season seeding in order to establish a permanent protective vegetative cover.

Item 166. Fertilizer

Fertilize all areas of project to be seeded or sodded.

Item 168. Vegetative Watering

Furnish and install an approved rain gauge at the project site, as directed. Furnishing and installation of the rain gauge will not be paid for directly, but will be considered subsidiary to Item 168.

Apply vegetative watering for an establishment period of thirteen weeks following application of seed or installation of sod, at a rate of ½" of water depth per week (approximately 13,030 gallons per acre). During the first four weeks after seeding, apply watering twice per week, on non-consecutive days, at half the weekly application rate. For the remainder of the establishment period, apply vegetative watering once per week during the months of January through June or September through December, at the weekly application rate; apply watering twice per week, on

non-consecutive days during the months of July and August, at one-half the weekly application rate.

Average weekly rainfall rates for the Fort Worth District

January – 0.39”	April – 0.86”	July – 0.48”	October – 0.68”
February – 0.46”	May – 1.00”	August – 0.47”	November – 0.46”
March – 0.48”	June – 0.63”	September – 0.74”	December – 0.37”

Item 247. Flexible Base

(TY E, GR 4) RAP from stockpiles located at IH 35W at FM 916, and SH 174 at BNSF Railroad Road bridge, may be used for this project. Asphaltic Pavement reworked under item 251 of this contract may be used for this project. Aggregate must conform to the following requirements:

Gradation:	
Retained on Sieve Size	**Percent (%) by Weight**
1-3/4 in.	**0 – 5**
No. 4	**30 – 75**
No. 40	**65 – 85**
Plasticity Index (PI)	**15 max.**
Liquid Limit	**45 max.**
Wet Ball Mill	**50 max.**
Wet Ball Mill, % Increase Passing the No. 40	**20 max.**

Place material in two or more equal lifts unless otherwise directed.

Do not add field sand to modify the final material to meet the requirements.

Cement treat in accordance with Item 275.

Item 251. Reworking Base Course

Stockpile base material salvaged and not used from this project at IH 35W at FM 916, and SH 174 at BNSF Railroad Road bridge, or as directed.

Item 276. Cement Treatment (Plant-Mixed)

Treat base or subgrade material with a maximum 4% cement by weight. The 7-day compressive strength of treated material shall be 250 psi.

Item 310. Prime Coat

Provide an RC-250 for this Item.

Item 314. Emulsified Asphalt Treatment

Provide AE-P for this Item. Use between a 30% - 50% asphalt mixture with heated water added at the plant.

Item 316. Surface Treatments

PG64-22, PG58-22 or CRS-2 may be substituted for AC-10, with written approval. CRS-2 may not be used with precoated aggregates. Provide and apply CRS-2 at a rate approximately 50% asphalt residue. Apply CRS-2 at a rate approximately 50% higher than specified for AC-10, or as directed.

Remove vegetation and blade pavement edges as directed.

Furnish aggregate meeting a Surface Aggregate Classification rating of "B"

Item 341. Dense-Graded Hot Mix Asphalt (QC/QA)

When placed adjacent to travel way, construct longitudinal joints using a tapered extrusion device capable of forming a tapered joint as detailed in the plans or as directed.

RAP aggregate must meet the requirements of Table 1.

Department owned RAP is available to the Contractor. The stockpile location is IH 35W at FM 916, and SH 174 at BNSF Railroad Road bridge. Contact the Keene Maintenance Office at (817) 202-2900 (metro) with at least 72 hours advanced notice, to coordinate the acquisition and accounting of RAP material.

Target laboratory molded density is 97%.

Provide aggregate with a Surface Aggregate Classification value of B for the surface course of the travel lanes.

Provide PG70-22 asphalt for surface course when using fractionated RAP

Provide a PG70-22 asphalt for the surface course.

Table 11A
Minimum Pavement Surface Temperatures

	Minimum Pavement Surface Temperatures in Degrees Fahrenheit	
High Temperature Binder Grade	Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
PG 64	45	50
PG 70	55[1]	60[1]
PG 76	60[1]	60[1]
PG 76	65[1]	70[1]
Asphalt Rubber (A-R)	65[1]	70[1]

Note 1: Contractors may pave at temperatures 10°F lower than the values shown in Table 11A when utilizing a paving process or equipment that eliminates thermal segregation. In which cases, the contractor must use either an infrared bar attached to the paver, or a hand held thermal camera, or a hand held infrared thermometer operated in accordance with Test Method 244-F to demonstrate to the satisfaction of the engineer that the uncompacted mat has no more than 10°F of thermal segregation.

If the Contractor elects to use Warm Mix Asphalt (WMA) the following notes will apply.

Notify the District Pavement Engineer.

Use only fractionated RAP.

Use an Evotherm DAT Warm Mix Asphalt (WMA), a SASOBIT WMA, or an Advera WMA product additive for all mix applications. Delivery temperature shall be a maximum of 235° F. Delivery and roll out temperatures will be modified by the supplier and accepted by the engineer. All work related to WMA product additives is subsidiary to this item.

To produce an Evotherm WMA, the mix production facility will receive Evotherm DAT Concentrate from the concentrate supplier or via an authorized representative of either supplier. Evotherm DAT Concentrate, a chemical solution, is metered into the asphalt line at a rate of 5.26% by asphalt weight. Evotherm DAT Concentrate contains approximately 15% Evotherm chemistry and 85% water. The Evotherm DAT supplier will provide the delivery pump, if necessary.

To produce a SASOBIT WMA, the mix production facility will receive SASOBIT from the solution supplier. SASOBIT is metered into the asphalt line at a rate of 1.5% by weight of total binder content.

To produce an Advera WMA, the mix production facility will receive Advera from the solution supplier. Advera is added into the mixing drum at a rate of 0.25% by asphalt weight to create a foaming effect in the binder. Advera WMA is a synthetic zeolite (hydrated aluminosilicate, containing 18-21% water).

An authorized representative of the WMA product additive supplier shall be present onsite during the first day of asphalt placement.

WMA allows the asphalt mix to work at a lower delivery temperature, which is not only better for the environment, but will result in lower contractor fuel cost**.** Based off of the bid quantities, suppliers will report to the Engineer the projected reduction in volatiles or greenhouse gases as compared to normal hot mix operations that this style of mix produces.

Item 502. Barricades, Signs, and Traffic Handling

Permanent signs may be installed when construction in an area is complete and they will not be in conflict with the traffic control plan for the remainder of the job.

Existing signs are to remain as long as they do not interfere with construction and they do not conflict with the traffic control plan.

Any sign not detailed in the plans but called for in the layout shall be as shown in the current "Standard Highway Sign Designs for Texas”.

When traffic is obstructed, arrange warning devices in accordance with arrangements indicated in the latest revision of the "Texas Manual on Uniform Traffic Control Devices".

Cover or remove any work zone signs when work or condition referenced is not occurring.

Item 506. Temporary Erosion, Sedimentation, and Environmental Controls

The SW3P for this project shall consist of using the following items as directed:

a. Erosion control logs

Remove accumulated sediment and/or replace SW3P controls when the capacity has been reduced by 50% or when the depth of sediment at the control structure exceeds one foot.

Item 585. Ride Quality for Pavement Surfaces

Use Surface Test Type A to evaluate ride quality of all hmac surfaces.

For cement treated base ride quality will be accepted on an IRI value of 100.

Item 6834. Portable Changeable Message Signs

All portable changeable message signs and arrow panels are to be provided with a photoelectric device to allow for automatic dimming of operations to approximately 50% of their normal brightness when ambient light drops to approximately five footcandles, and then increase back again for daytime operations.

2 electronic portable changeable message sign unit(s) will be required. Individual or collective use of signs will be required by Engineer when deemed necessary to supplement the traffic control plan.

Each sign shall be programmed in its permanent memory the following 15 messages:

1. Exit Closed Ahead
2. Use Other Routes
3. Right Lane
4. Left Lane
5. Closed Ahead
6. Two Lane
7. Detour Ahead
8. Thru Traffic
9. Prepare To Stop
10. Merging Traffic
11. Expect 15 Minute Delay
12. Max Speed ** MPH
13. Merge Right
14. Merge Left
15. No Exit Next ** Miles

Item 8251. Reflectorized Pavement Markings with Retroreflective Requirements

Collection of retro-reflectivity readings using a mobile retro-reflectometer is the preferred method. If retro-reflectivity readings are collected using a portable/handheld unit, then measurement is defined as a collective average of at least 20 readings taken along a 200-foot test section. A minimum of three measurements will be required per mile of roadway. Measurements collected on a centerline stripe will be averaged separately for stripe in each direction of travel. A TxDOT inspector must witness the calibration and collection of all retro-reflectivity data.